

QUICK-RELEASE BUCKET ADAPTER

ABSTRACT OF THE DISCLOSURE

5 A manipulator assembly for attachment to a bucket of a construction vehicle is disclosed. The manipulator assembly includes a universal attachment apparatus for attaching a utility tool to the bucket. The universal attachment apparatus includes a housing adapted to support the utility tool, at least one mounting bracket connected to the housing, and at least one mounting arm having a first end and a second end, the
10 first end being connected to the mounting bracket. The mounting arms further include feet positioned adjacent the quick-release connector for allowing the utility tool to pivot relative to the bucket. A quick-release connector is mounted to the second end of the mounting arm for selectively securing the housing to the bucket. A biasing device is disposed on the quick-release connector for continuously urging the quick-
15 release connector into engagement with the bucket. Therefore, the bucket remains free of the quick-release connector and the biasing device when the utility tool is removed from the bucket.

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